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IN THE ABSTRACT OF THE DISCLOSURE:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure:

**DETECTING AND COMPENSATING DEFECTIVE
PIXELS IN IMAGE SENSOR ON REAL TIME BASIS**

ABSTRACT OF THE DISCLOSURE

An apparatus for detecting and compensating defective pixels in a real time by using a two-dimension space filter and characteristics of image data simplifies test processes for an image sensor and enhances yield of the image sensor chip. The apparatus includes: a defect defective pixel detection block for detecting and determining a defective pixel based on a check condition, the condition representing that image data of the defective pixel has a value larger than a first coefficient ~~of the times a~~ maximum image data of adjacent normal pixels or a value smaller than a second coefficient ~~of the times a~~ minimum image data of ~~that adjacent~~ normal pixels; and a defect defective pixel compensation block for compensating the image data of the defective pixel and outputting compensated image data, in response to the image data of a check target pixel, the maximum image data of the adjacent normal pixels, the minimum image data of the adjacent normal pixels, a defective pixel determination signal representing that the target pixel is defective, and a minimum or maximum range violation ~~signals~~ signal representing that the image data of the defective pixel violates the maximum or minimum ranges in the check condition, which are provided thereto from the defective pixel detection block.